

GREENWOOD PUBLIC SCHOOL
Sector-9, Gurugram
Ch-14: Natural Resources

Class: IX

Subject: Biology

Question on 14.1 The Breath of Life: Air

- Q1. What are the main resources on Earth?
- Q2. What is biosphere? Name the biotic and abiotic components of biosphere?
- Q3. Why no life exists on planets - Venus and Mars?
- Q4. How is our atmosphere different from the atmospheres of Venus and Mars?
- Q5. Name the three processes which are involved in consumption of oxygen and production of carbon dioxide.
- Q6. Mention the processes by which CO₂ is fixed.
- Q7. The atmosphere acts as a blanket on Earth. How?
- Q8. What is the effect of no atmosphere on Moon?
- Q9. How is water vapour formed?
- Q10. Mention all the factors which cause and influence winds.
- Q11. How are winds caused?
- Q12. How are clouds formed?
- Q13. Mention two forms of precipitation in nature when temperature of air is too low.
- Q14. Name the factors responsible for rainfall patterns in India.
- Q15. How is acid rain formed?
- Q16. Name the oxides formed by burning of fossil fuel which give rise to acid rain.
- Q17. What is air pollution? List any three human activities that lead to air pollution. What are the effects of air pollution?
- Q18. Name the pollution indicators which grow on the barks of trees.

Question on 14.2 Water: A Wonder Liquid

- Q1. Explain the availability and existence of water on earth.
- Q2. Why is water necessary? OR why do all organisms require water?
- Q3. Terrestrial life forms require fresh water and not marine for functioning. Why?
- Q4. What is water pollution? Name the four activities which cause water pollution.
- Q5. How does change in temperature affect aquatic life?

Question on 14.3 Mineral Riches in the Soil

- Q1. What is weathering? Write the different means which cause weathering.
- Q2. How does the sun causes formation of soil?
- Q3. Explain the two ways by which water helps in the formation of soil.
- Q4. How living organisms influence the formation of soil?
- Q5. Write the composition of soil. On what basis is type of soil decided?
- Q6. Give the advantages of humus in soil.
- Q7. Mention the factors that decide the type of plants in soil.
- Q8. What is topsoil? What is the effect of modern farming practices in soil?
- Q9. What is soil erosion? Mention the factor that causes and prevents soil erosion.

Question on 14.4.1 The Water Cycle

- Q1. What is water cycle? Draw.
- Q2. All of the water that falls on land does not immediately flows back to sea. Explain
- Q3. Name the various processes which water reaches to higher levels of atmosphere.

Question on 14.4.2 The Nitrogen Cycle

- Q1. Give the importance of nitrogen OR Mention the important molecules & biologically important compounds which contain nitrogen.
- Q2. What is nitrogen-fixing bacteria? What do they do to inert nitrogen molecule?
- Q3. Explain the physical process of fixing atmospheric nitrogen.
- Q4. Explain the following terms with respect to nitrogen cycle –
- | | |
|----------------------|--------------------|
| a. Nitrogen fixation | c. Nitrification |
| b. Ammonification | d. Denitrification |
- Q5. What happens to the nitrogen once it is converted into forms that can be taken up by plants?
- Q6. What is nitrogen cycle? Draw nitrogen cycle in nature.

Question on 14.4.3 The Carbon Cycle & The Greenhouse Effect

- Q1. Mention the two forms of carbon found in Earth.
- Q2. Name various carbon containing molecules.
- Q3. How is carbon incorporated into life-forms? Explain
- Q4. What are the three ways by which CO₂ is returned back to atmosphere?
- Q5. Draw carbon cycle.
- Q6. What is a greenhouse?
- Q7. Name the chief greenhouse gases.
- Q8. What is greenhouse effect? How it leads to global warming?

Question on 14.4.4 The Oxygen Cycle

- Q1. Briefly explain Oxygen cycle.
- Q2. Name the various forms of oxygen that occurs on Earth.
- Q3. Name three processes which use oxygen from the atmosphere.

Question on 14.5 Ozone Layer

- Q1. What are the two forms of oxygen found in the atmosphere?
- Q2. Where is ozone layer found? Give the function of ozone
- Q3. How is ozone layer depleted?